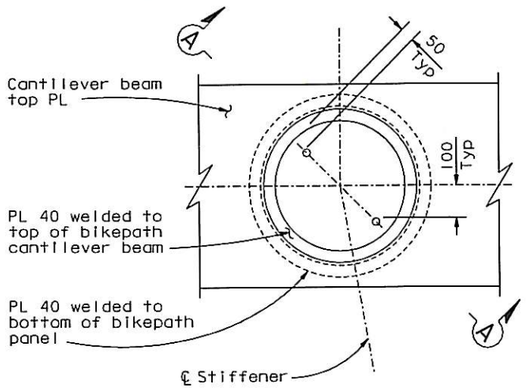
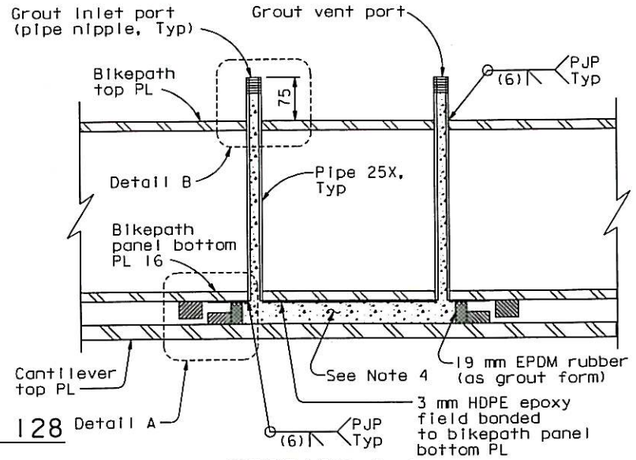


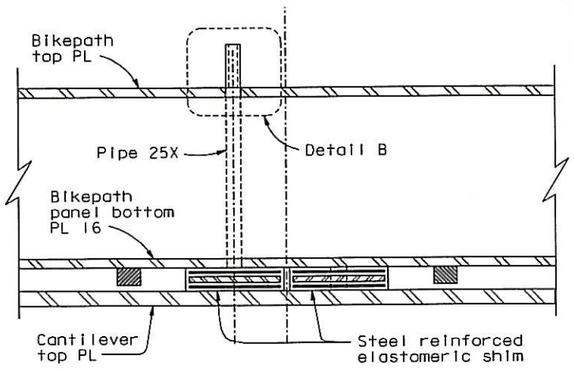
ALTERNATE PARTIAL PLAN @ PP 128

1:10



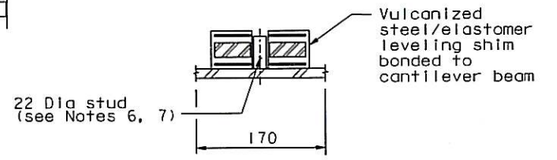
SECTION A-A

1:5



SECTION B-B

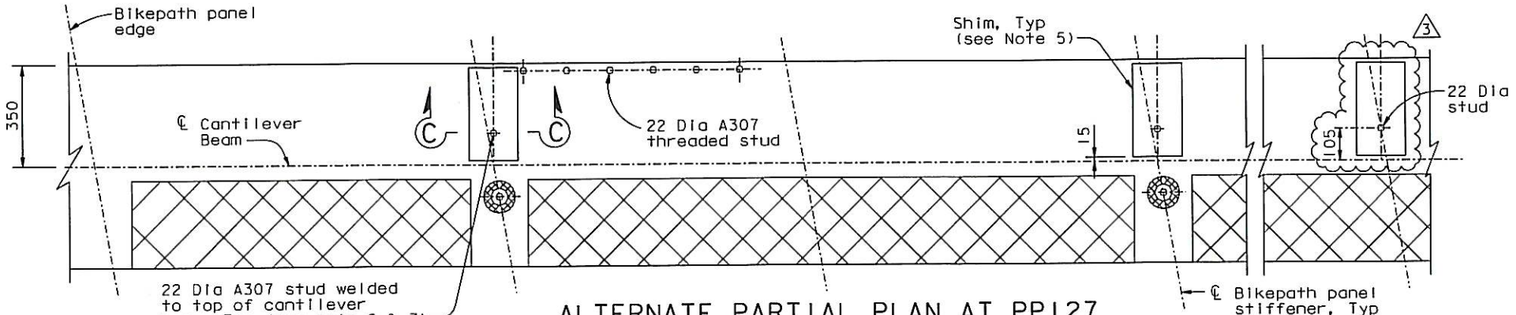
1:5



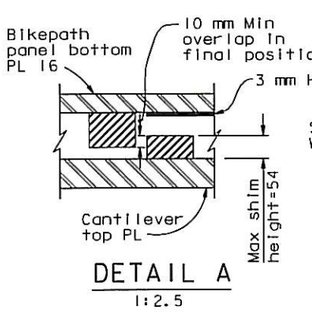
SECTION C-C (Bikepath not shown for clarity) (See Note 3)

1:5

GROUT ALTERNATE

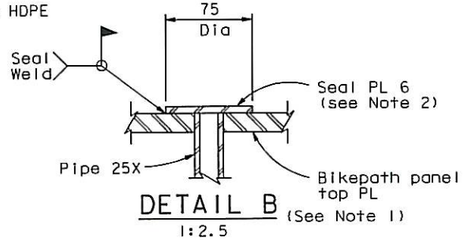


ALTERNATE PARTIAL PLAN AT PP127



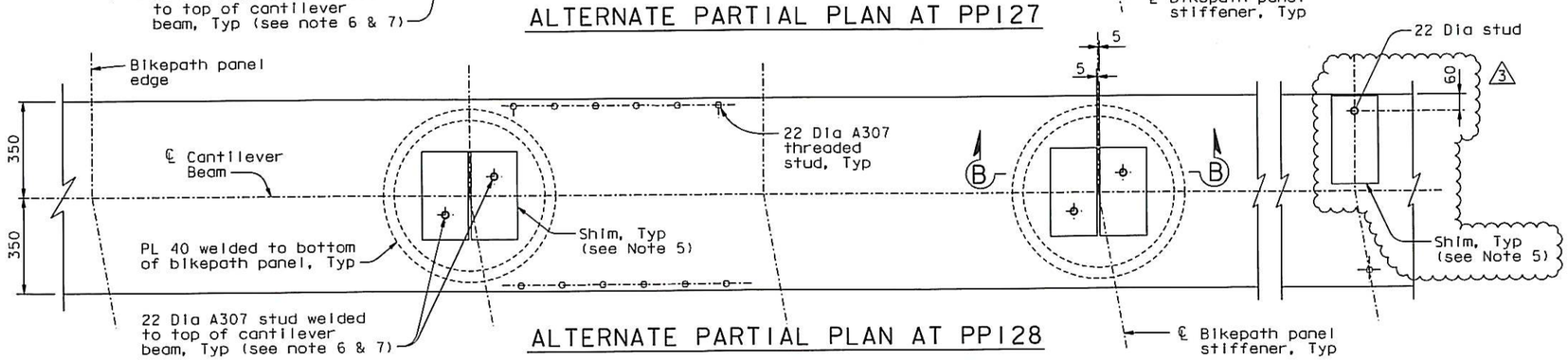
DETAIL A

1:2.5



DETAIL B (See Note 1)

1:2.5



ALTERNATE PARTIAL PLAN AT PP128

STEEL-REINFORCED ELASTOMERIC SHIM ALTERNATE

1:10

NOTES:

1. Before application of overlay, pipe 25X to be cut off and ground flush with bikepath panel top PL.
2. Seal PL 6 is used to cover holes in bikepath panel top PL. At the Contractor's option, an alternate sealing detail for the grout tube may be proposed for review and approval of the Engineer.
3. At the Contractor's option, shim heights may be detailed per Details G & J on "Bikepath Details No.19" sheet.
4. Grout will be injected in the following cases:
   - If it cannot be determined if the panel is bearing on the ring shims.
   - If welding an additional shim is not practical due to its thickness.

   Prior to grouting, the Contractor shall submit grout specifications for review and approval of the Engineer.
5. For steel-reinforced elastomeric shim details, see "Bikepath Details No.23" sheet.
6. Height of stud is equal to the steel reinforced elastomeric shim thickness minus 10 ±3 mm.
7. At the Contractor's option, Grade C1015 may be used, subject to review and approval of the Engineer.

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	840S6R3	1204

Caltrans Metric

REGISTERED ENGINEER - CIVIL

03-04-11

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER — Tien Hung Ho — No. C 43990 — Exp. 06/30/11 — CIVIL — STATE OF CALIFORNIA

T.Y. LIN / MOFFATT & NICHOL
825 BATTERY STREET
SAN FRANCISCO, CA 94111

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REGISTERED PROFESSIONAL ENGINEER — Marwan N. Nader — No. C 054426 — Exp. 12/31/13 — CIVIL — STATE OF CALIFORNIA

FOR REVISIONS ONLY

CONTRACT CHANGE ORDER NO. 228 S2

SHEET 2 OF 4

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
3	04/03/13	BIKEPATH LEVELING (PP103-HINGE A)	AB	TH	228S2
2	03/15/13	BIKEPATH DETAILS	DT	MN	303
1	12/14/12	BIKEPATH DETAILS	DT	MN	99S1
0	03/04/11	BIKEPATH DETAILS	RB	TH	99

REVISIONS

REVISION 2 SUPERSEDES REVISION 1

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

R. Vallzadeh/V. Toan/Y.L./W.L./F.C.
DESIGN OVERSIGHT
SIGN OFF DATE 04/03/13

	BY	CHECKED
DESIGN	R. Boundouki	T. Ho
DETAILS	R. Boundouki	T. Ho
QUANTITIES	R. Boundouki	T. Ho

PREPARED FOR THE STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

BRIDGE NO. 34-0006L/R
KILOMETER POST 13.2/13.9

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE (SUPERSTRUCTURE & TOWER)

BIKEPATH DETAILS NO. 22

Rev. Date: 5-18-98

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 04
EA 0120F1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 03/04/11

SHEET 423S6R3 OF

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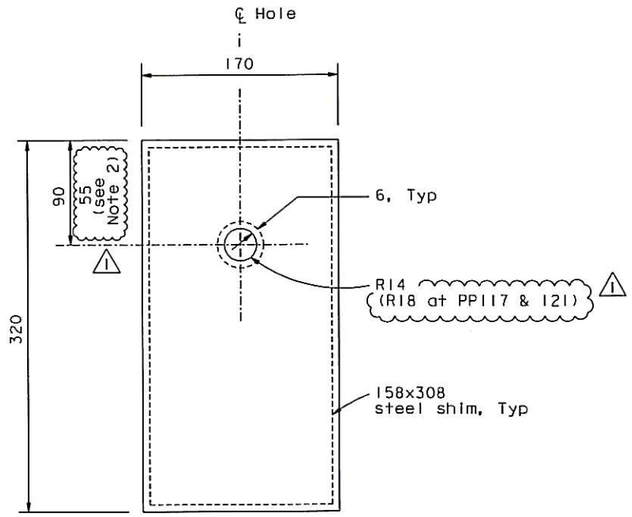
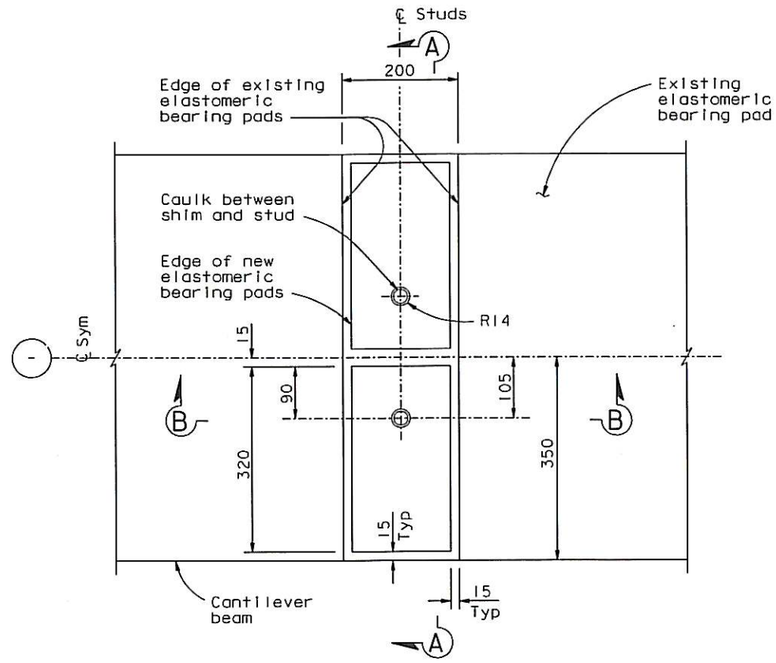
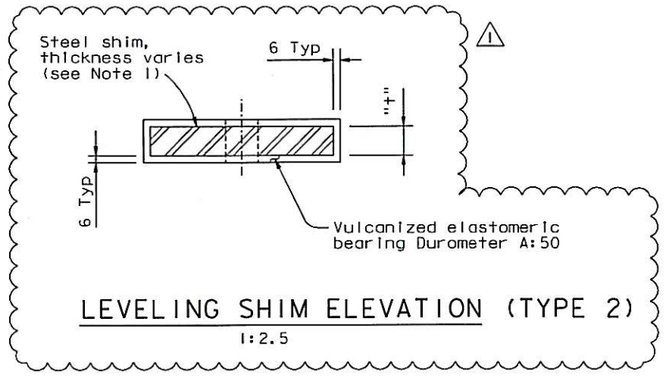


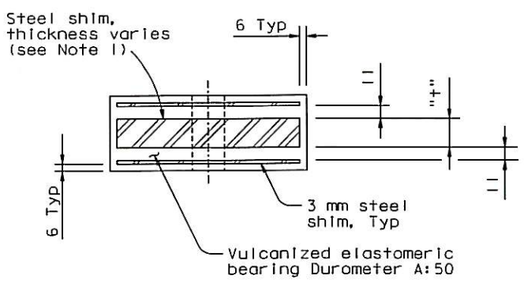
LEVELING SHIM PLAN
1:2.5



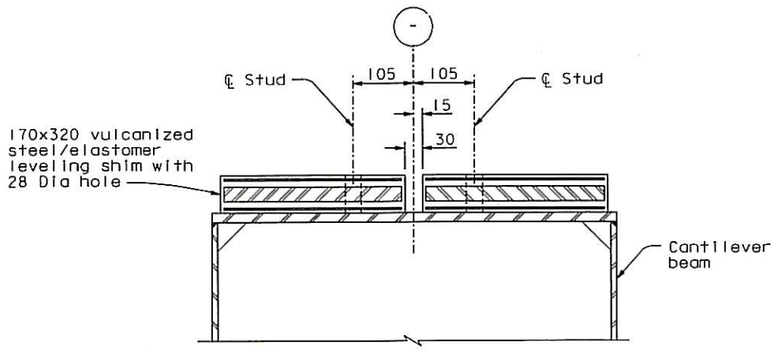
SHIM DETAIL (Bikepath Panel Not Shown)
1:5
(PP127 & 128 Similar) ⚠1



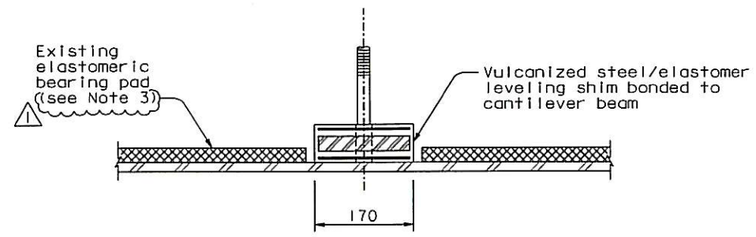
LEVELING SHIM ELEVATION (TYPE 2)
1:2.5



LEVELING SHIM ELEVATION (TYPE 1) ⚠1
1:2.5



SECTION A-A (Bikepath Panel Not Shown)
1:5



SECTION B-B (Bikepath Panel Not Shown)
1:5

NOTES:

1. For steel shim thickness "t", see "Bikepath Details No. 24" sheet.
2. ⚠1 Dimension to center of hole shall be 55 for one shim on PP128. See "Bikepath Details No. 22" sheet.
3. From PP109 to Hinge A, prior installation of elastomeric 25 bearing pad on "Bikepath Details No. 4" sheet is not necessary.

CONTRACT CHANGE ORDER NO. 228 S2
SHEET 3 OF 4

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	840S7R1	1204

REGISTERED ENGINEER - CIVIL
Tien Hung Ho
No. C 43990
Exp. 06/30/13
CIVIL
STATE OF CALIFORNIA
08-17-12
PLANS APPROVAL DATE

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825 BATTERY STREET
SAN FRANCISCO, CA 94111

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MARK	DATE	REVISIONS	BY	CH'D	CCO#
⚠1	04/03/13	BIKEPATH LEVELING (PP103-HINGE A)	AB	TH	228S2
⚠0	08/17/12	BIKEPATH LEVELING	AB	TH	228S1

DESIGN OVERSIGHT: R. Vallzadeh/V. Toan/Y. L./W. L./F. C.
SIGN OFF DATE 04/03/13

DESIGN BY A. Baumberger CHECKED T. Ho
DETAILS BY A. Baumberger CHECKED H. Tazlr
QUANTITIES BY A. Baumberger CHECKED H. Tazlr

PREPARED FOR THE STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

BRIDGE NO. 34-0006L/R
KILOMETER POST 13.2/13.9

CU 04
EA 0120F1

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE & TOWER)

BIKEPATH DETAILS NO. 23

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES (PRELIMINARY STAGE ONLY): 08/17/12
SHEET 42357R1 OF

Rev. Date: 5-18-08

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

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DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SF	80	13.2/13.9	840S8RI	1204

REGISTERED ENGINEER - CIVIL

Tien Hung Ho
No. C 43990
Exp. 06/30/13
CIVIL
STATE OF CALIFORNIA

08-17-12
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SHIM THICKNESS "+" (mm)

	HINGE K - PP5.5		PP5.5 - PP7.5*		PP7.5 - PP9		PP9 - PP11		PP11 - PP13		PP13 - PP15		PP15 - PP17		PP17 - PP19		PP19 - PP21		PP21 - PP23		PP23 - PP25	
	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E
N	(See Note 1)						10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
S							23	39	32	32	30	30	28	28	26	29	27	27	29	29	31	37

	PP25 - PP27		PP27 - PP29		PP29 - PP31		PP31 - PP33		PP33 - PP35		PP35 - PP37		PP37 - PP39		PP39 - PP41		PP41 - PP43		PP43 - PP45		PP45 - PP47	
	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E
N	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
S	37	33	35	35	41	28	31	23	23	27	31	23	24	28	29	26	33	23	23	23	23	23

	PP47 - PP49		PP49 - PP51		PP51 - PP53		PP53 - PP55		PP55 - PP57		PP57 - PP59		PP59 - PP61		PP61 - PP63		PP63 - PP65		PP65 - PP67		PP67 - PP69	
	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E	W	E
N	10	10	10	10	10	10	10	10	10	10	15	15	13	13	11	11	10	10	10	10	10	10
S	23	23	23	23	28	25	28	28	23	29	32	32	33	30	28	28	26	26	24	24	23	23

	PP69 - PP71		PP71 - PP73		PP73 - PP75		PP75 - PP77		PP77 - PP79		PP79 - PP81		PP81 - PP83		PP83 - PP85		PP85 - PP87		PP87 - PP89		PP89 - PP91	
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	PP91 - PP93		PP93 - PP95		PP95 - PP97		PP97 - PP99		PP99 - PP101		PP101 - PP103		PP103 - PP105		PP105 - PP107		PP107 - PP109		PP109 - PP111		PP111 - PP113	
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S	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	26	7	7	24

	PP113 - PP115		PP115 - PP117		PP117 - PP121**		PP121 - PP123		PP123 - PP125		PP125 - PP127		PP127 - HINGE A	
	W	E	W	E	W	E	W	E	W	E	W	E	W	E
N	12	12	12	12	13	13	12	12	12	12	12	16	8 (see Note 3)	12 (see Note 3)
S	20	17	20	7	8	7	6	22(a)	22(a)	22	9	18	8 (see Note 3)	13(a) (see Note 3)

* Bikepath panel at West Belvedere

** Bikepath panel at East Belvedere

△1 (a) Type 2 Leveling Shim

NOTES:

1. Shim thickness at these locations to be provided by the Engineer after field measurements of panels are completed.
2. Shim thickness shown for Type 1 Leveling Shim unless noted otherwise.
3. △1 3 total shims at PP127 and 5 total shims at PP128. For layout details, see "Bikepath Details No. 22" sheet.

CONTRACT CHANGE ORDER NO. 22852
SHEET 4 OF 4

REQUESTS FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

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R. Vallzadeh/V. Toan/Y. L./W. L./F. C.
DESIGN OVERSIGHT
Sign Off Date 04/03/13

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
		REVISIONS			
△1	04/03/13	BIKEPATH LEVELING (PP103-HINGE A)	AB	TH	22852
△0	08/17/12	BIKEPATH LEVELING	AB	TH	22851

	BY	CHECKED
DESIGN	A. Baumberger	T. Ho
DETAILS	A. Baumberger	H. Tazir
QUANTITIES	A. Baumberger	H. Tazir

PREPARED FOR THE STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

R. Manzanarez
PROJECT ENGINEER

BRIDGE NO. 34-0006L/R
KILOMETER POST 13.2/13.9

SAN FRANCISCO OAKLAND BAY BRIDGE
EAST SPAN SEISMIC SAFETY PROJECT
SELF-ANCHORED SUSPENSION BRIDGE
(SUPERSTRUCTURE & TOWER)

BIKEPATH DETAILS NO. 24

Rev. Date: 5-18-98

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CU 04
EA 0120F1

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REVISION DATES (PRELIMINARY STAGE ONLY): 08/17/12

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